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🔍 Title: **JP11191322A2: TIN-PLATED WIRE FOR ELECTRONIC EQUIPMENT**

🔍 Derwent Title: Tin-plated wire for cable of electronic devices - containing tin-silver-bismuth alloy ([Derwent Record](#))

🔍 Country: JP Japan

🔍 Kind: A

🔍 Inventor: ICHIKAWA TAKAO;
AOYAMA MASAYOSHI;
KONISHI KENJI;

🔍 Assignee: HITACHI CABLE LTD
HITACHI SENZAI KK
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🔍 Published / Filed: 1999-07-13 / 1997-12-26

🔍 Application Number: JP1997000358973

🔍 IPC Code: [H01B 5/02](#); [C22C 13/02](#); [C23C 2/08](#); [C23C 2/38](#);

🔍 Priority Number: 1997-12-26 JP1997000358973

🔍 Abstract: PROBLEM TO BE SOLVED: To provide a tin-plated wire for electronic equipment whose bending resistance (bending life) is improved without changing the material of the conductor (a material subjected to plating).

SOLUTION: A tin-silver-bismuth alloy containing 2.0-5.0 wt.% of silver (Ag) and 1.0-30 wt.% of bismuth (Bi) is used as a tin plating and consequently this tin-plated wire for electronic equipment has higher strength than a conventional wire plated with pure tin and a prolonged bending life. This plated wire is of an assembling stranded wires preferably produced by plating tough pitch copper wires (a soft copper wire) with 0.08 mm wire diameter with a tin-silver-bismuth alloy in 0.5-1.0 μm thickness and stranding 60 of wires plated in such a manner.

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🔍 Family: None

🔍 Other Abstract Info: CHEMABS 131(07)091147R CHEMABS 131(07)091147R DERABS C1999-454382 DERABS C1999-454382

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